

# Acute thrombosis on a carotid web associated with an ipsilateral embolic stroke

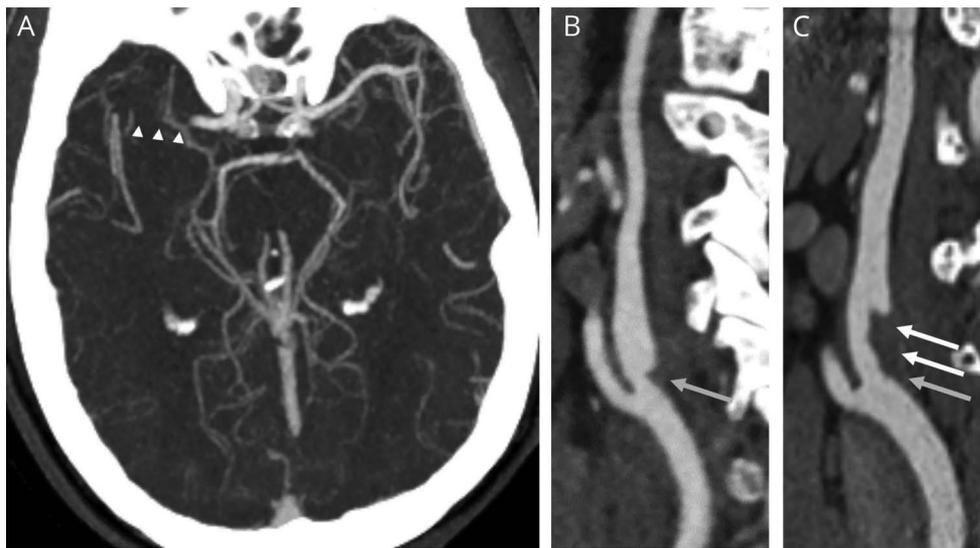
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**Figure** CT angiography (CTA)



(A) CTA at presentation demonstrates a right M1 occlusion (arrowheads). (B) Sagittal CTA at presentation demonstrates a shelf-like filling defect along the posterior *internal carotid artery* bulb consistent with a carotid web (gray arrow). (C) A CTA performed 25 hours later shows new thrombus along the web (white arrows).

A 56-year-old man without cardiovascular risk factors presented with an acute right middle cerebral artery stroke (figure, A) treated by IV tissue plasminogen activator and endovascular thrombectomy. CT angiogram (CTA) showed a triangular filling defect along the posteromedial margin of the proximal right *internal carotid artery* (ICA) consistent with a carotid web (CaW), without atherosclerosis (figure, B). Follow-up CTA within 2 days revealed evolving in situ thrombus overlying the CaW (figure, C), after which anticoagulation was started. A CaW is a shelf-like linear filling defect of the ICA bulb thought to represent an intimal variant of fibromuscular dysplasia.<sup>1</sup> Hypothetically, blood stasis along CaW downstream surface may cause thrombus formation and thromboembolic strokes.<sup>2</sup>

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## Disclosure

The authors report no disclosures. Go to [Neurology.org/N](https://www.neurology.org/N) for full disclosures.

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## Appendix Authors

Name	Location	Contribution
<b>Mohammed Al-Dulaimi, MD</b>	Tufts Medical Center, Boston, MA	Drafted the manuscript
<b>Mohamed Ridha, MD</b>	Tufts Medical Center, Boston, MA	Drafted the manuscript
<b>Juan E. Small, MD</b>	Lahey Hospital and Medical Center, Burlington, MA	Acquisition and analysis of images
<b>Matthew Tilem, MD</b>	Lahey Hospital and Medical Center, Burlington, MA	Provided clinical correlation
<b>Barbara Voetsch, MD, PhD</b>	Lahey Hospital and Medical Center, Burlington, MA	Critical revision for intellectual content

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## Appendix (continued)

Name	Location	Contribution
<b>Johanna Helenius, MD, PhD</b>	Lahey Hospital and Medical Center, Burlington, MA	Study concept, design, and coordination

## References

1. Choi PM, Menon BK, Demchuk AM. Carotid web and stroke. *Eur J Neurol* 2014;21:e53.
2. Choi PM, Singh D, Trivedi A, et al. Carotid webs and recurrent ischemic strokes in the era of CT angiography. *AJNR Am J Neuroradiol* 2015;36:2134–2139.

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